

**F6** Contactless Smart Card Keypad Reader is a user-friendly and high-security physical access control reader. It is waterproof and made of high-quality materials to enhance reliability and longevity, hence suitable for both indoor and outdoor installations.

The reader is equipped with touch sensor keypad technology. Its Wiegand output means the reader can directly connect to any Wiegand door access controller. Its highly secured data encryption output also works with ACX 2080 Gateway, ensuring the data cannot be snooped by external devices. This effectively resolves the Wiegand signal transmission issue.



## FEATURES

- Waterproof Contactless Technology Keypad Reader
- EM 125KHz technology available
- Red / Green / Blue or mixed color LED bar, user-defined LED ON / OFF time interval
- Internal buzzer, user-defined buzzer ON / OFF time interval
- User-defined Wiegand pulse interval to serve different door access panels
- User defined "I Am Alive" feature
- Touch sensor keypad, overcoming the membrane keypad problem
- Reader firmware ungradable
- Standard mode : Wiegand output to Wiegand door access panel, RS485 to host for reader communication
- Secure mode : high-security data encryption output, ACX 2080 Gateway helps avoid card data being snooped



## SPECIFICATIONS

F6 Contactless Smart Card Keypad Reader	
Model Number	91LF06-9613
Card Technology	EM
ISO Standard	NA
Transmit Frequency	125 KHz
Typical Read Range	ISO card : 6cm ; Keyfob : 3cm Typical read range achieved in air; different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required.
Communication	Standard mode : Wiegand output Secure mode : RS485, connected to ACX 2080 Gateway. ACX 2080 Gateway Wiegand output to door access pane
Reader Firmware	Reader firmware upgradable in offline mode
"I Am Alive"	User-defined 1 byte "I Am Alive" data at a certain interval, applied for Wiegand interface
Multi Card Format	Fixed card number output (1 to 64 bits), parity bits disable / enable
Wiegand Output	User-defined Wiegand pulse interval for different door access panels
Reader Wires (10 wires)	Power, Ground, Wiegand D0 / ABA Data, Wiegand D1 / ABA Clock, ABA card present, RS485(A), RS485(B), Green LED / ACK, Buzzer, Hold and shield wires
Mounting	Design for door frame installation
Visual Indicator	LED bar in Red, Green, and Blue; user-defined LED ON / OFF time interval
Audio Indicator	Internal buzzer, user-defined beep sound ON / OFF time interval (ms)
Color	Dark Gray or White
Dimension	44mm x 128mm x 20mm
Product Weight	140g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	100mA AVG, 120mA PEAK
Operating Temperature	-31° to 150° F (-35° to 65° C)
Storage Temperature	-67° to 185° F (-55° to 85° C)
Operating Humidity	5% to 95% relative humidity non-condensing
Certification	IP67, IK06, CE 0700, RoHS
Panel Connection	Pigtail
Housing Material	Polycarbonate
Cable Distance	Wiegand interface : 500 feet (150 m), RS485 interface: 4000 feet (1200 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent